

PC-0028 US

<110> Lasek, Amy W.
Krasnow, Randi E.
Baughn, Mariah R.

<120> INTESTINAL PROTEINS

<130> PC-0028 CIP

<140> To Be Assigned

<141> Herewith

<160> 32

<170> PERL Program

<210> 1

<211> 475

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3229449CD1

<400> 1

Met	Lys	Ile	Ser	Met	Ile	Asn	Tyr	Lys	Ser	Leu	Leu	Ala	Leu	Leu
1				5					10					15
Phe	Ile	Leu	Ala	Ser	Trp	Ile	Ile	Phe	Thr	Val	Phe	Gln	Asn	Ser
				20					25					30
Thr	Lys	Val	Trp	Ser	Ala	Leu	Asn	Leu	Ser	Ile	Ser	Leu	His	Tyr
				35					40					45
Trp	Asn	Asn	Ser	Thr	Lys	Ser	Leu	Phe	Pro	Lys	Thr	Pro	Leu	Ile
				50					55					60
Ser	Leu	Lys	Pro	Leu	Thr	Glu	Thr	Glu	Leu	Arg	Ile	Lys	Glu	Ile
				65					70					75
Ile	Glu	Lys	Leu	Asp	Gln	Gln	Ile	Pro	Pro	Arg	Pro	Phe	Thr	His
				80					85					90
Val	Asn	Thr	Thr	Thr	Ser	Ala	Thr	His	Ser	Thr	Ala	Thr	Ile	Leu
				95					100					105
Asn	Pro	Arg	Asp	Thr	Tyr	Cys	Arg	Gly	Asp	Gln	Leu	His	Ile	Leu
				110					115					120
Leu	Glu	Val	Arg	Asp	His	Leu	Gly	Arg	Arg	Lys	Gln	Tyr	Gly	Gly
				125					130					135
Asp	Phe	Leu	Arg	Ala	Arg	Met	Ser	Ser	Pro	Ala	Leu	Met	Ala	Gly
				140					145					150
Ala	Ser	Gly	Lys	Val	Thr	Asp	Phe	Asn	Asn	Gly	Thr	Tyr	Leu	Val
				155					160					165
Ser	Phe	Thr	Leu	Phe	Trp	Glu	Gly	Gln	Val	Ser	Leu	Ser	Leu	Leu
				170					175					180
Leu	Ile	His	Pro	Ser	Glu	Gly	Val	Ser	Ala	Leu	Trp	Ser	Ala	Arg
				185					190					195
Asn	Gln	Gly	Tyr	Asp	Arg	Val	Ile	Phe	Thr	Gly	Gln	Phe	Val	Asn
				200					205					210
Gly	Thr	Ser	Gln	Val	His	Ser	Glu	Cys	Gly	Leu	Ile	Leu	Asn	Thr
				215					220					225
Asn	Ala	Glu	Leu	Cys	Gln	Tyr	Leu	Asp	Asn	Arg	Asp	Gln	Glu	Gly

PC-0028 US

	230		235		240
Phe Tyr Cys Val Arg	Pro Gln His Met	Pro Cys Ala Ala Leu Thr			
	245		250		255
His Met Tyr Ser Lys	Asn Lys Lys Val	Ser Tyr Leu Ser Lys Gln			
	260		265		270
Glu Lys Ser Leu Phe	Glu Arg Ser Asn Val	Gly Val Glu Ile Met			
	275		280		285
Glu Lys Phe Asn Thr	Ile Ser Val Ser	Lys Cys Asn Thr Leu Lys			
	290		295		300
Ser Val Asp Leu His	Glu Ser Gly Lys	Leu Gln His Gln Leu Ala			
	305		310		315
Val Asp Leu Asp Arg	Asn Ile Asn Ile	Gln Trp Gln Lys Tyr Cys			
	320		325		330
Tyr Pro Leu Ile Gly	Ser Met Thr Tyr	Ser Val Lys Glu Met Glu			
	335		340		345
Tyr Leu Thr Arg Ala	Ile Asp Arg Thr	Gly Gly Glu Lys Asn Thr			
	350		355		360
Val Ile Val Ile Ser	Leu Gly Gln His	Phe Arg Pro Phe Pro Ile			
	365		370		375
Asp Val Phe Ile Arg	Arg Ala Leu Asn Val	His Lys Ala Ile Gln			
	380		385		390
His Leu Leu Leu Arg	Ser Pro Asp Thr	Met Val Ile Ile Lys Thr			
	395		400		405
Glu Asn Ile Arg Glu	Met Tyr Asn Asp	Ala Glu Arg Phe Ser Asp			
	410		415		420
Phe His Gly Tyr Ile	Gln Tyr Leu Ile	Ile Lys Asp Ile Phe Gln			
	425		430		435
Asp Leu Ser Val Ser	Ile Ile Asp Ala	Trp Asp Ile Thr Ile Ala			
	440		445		450
Tyr Gly Thr Asn Asn	Val His Pro Pro	Gln His Val Val Gly Asn			
	455		460		465
Gln Ile Asn Ile Leu	Leu Asn Tyr Ile	Cys			
	470		475		

<210> 2

<211> 547

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7484349CD1

<400> 2

Met Ser Ser Asn Thr	Met Leu Gln Lys Thr	Leu Leu Ile Leu Ile			
1	5	10			15
Ser Phe Ser Val Val	Thr Trp Met Ile Phe	Ile Ile Ser Gln Asn			
	20	25			30
Phe Thr Lys Leu Trp	Ser Ala Leu Asn Leu	Ser Ile Ser Val His			
	35	40			45
Tyr Trp Asn Asn Ser	Ala Lys Ser Leu Phe	Pro Lys Thr Ser Leu			
	50	55			60
Ile Pro Leu Lys Pro	Leu Thr Glu Thr Glu	Leu Arg Ile Lys Glu			
	65	70			75
Ile Ile Glu Lys Leu	Asp Gln Gln Ile Pro	Pro Arg Pro Phe Thr			
	80	85			90

PC-0028 US

His Val Asn Thr	Thr	Thr	Ser	Ala	Thr	His	Ser	Thr	Ala	Thr	Ile
	95					100					105
Leu Asn Pro Arg	Asp	Thr	Tyr	Cys	Arg	Gly	Asp	Gln	Leu	Asp	Ile
	110					115					120
Leu Leu Glu Val	Arg	Asp	His	Leu	Gly	Gln	Arg	Lys	Gln	Tyr	Gly
	125					130					135
Gly Asp Phe Leu	Arg	Ala	Arg	Met	Ser	Ser	Pro	Ala	Leu	Thr	Ala
	140					145					150
Gly Ala Ser Gly	Lys	Val	Met	Asp	Phe	Asn	Asn	Gly	Thr	Tyr	Leu
	155					160					165
Val Ser Phe Thr	Leu	Phe	Trp	Glu	Gly	Gln	Val	Ser	Leu	Ser	Leu
	170					175					180
Leu Leu Ile His	Pro	Ser	Glu	Gly	Ala	Ser	Ala	Leu	Trp	Arg	Ala
	185					190					195
Arg Asn Gln Gly	Tyr	Asp	Lys	Ile	Ile	Phe	Lys	Gly	Lys	Phe	Val
	200					205					210
Asn Gly Thr Ser	His	Val	Phe	Thr	Glu	Cys	Gly	Leu	Thr	Leu	Asn
	215					220					225
Ser Asn Ala Glu	Leu	Cys	Glu	Tyr	Leu	Asp	Asp	Arg	Asp	Gln	Glu
	230					235					240
Ala Phe Tyr Cys	Met	Lys	Pro	Gln	His	Met	Pro	Cys	Glu	Ala	Leu
	245					250					255
Thr Tyr Met Thr	Thr	Arg	Asn	Arg	Glu	Val	Ser	Tyr	Leu	Thr	Asp
	260					265					270
Lys Glu Asn Ser	Leu	Phe	His	Arg	Ser	Lys	Val	Gly	Val	Glu	Met
	275					280					285
Met Lys Asp Arg	Lys	His	Ile	Asp	Val	Thr	Asn	Cys	Asn	Lys	Arg
	290					295					300
Glu Lys Ile Glu	Glu	Thr	Cys	Gln	Val	Gly	Met	Lys	Pro	Pro	Val
	305					310					315
Pro Gly Gly Tyr	Thr	Leu	Gln	Gly	Lys	Trp	Ile	Thr	Thr	Phe	Cys
	320					325					330
Asn Gln Val Gln	Leu	Asp	Thr	Ile	Lys	Ile	Asn	Gly	Cys	Leu	Lys
	335					340					345
Gly Lys Leu Ile	Tyr	Leu	Leu	Gly	Asp	Ser	Thr	Leu	Arg	Gln	Trp
	350					355					360
Ile Tyr Tyr Phe	Pro	Lys	Val	Val	Lys	Thr	Leu	Lys	Phe	Phe	Asp
	365					370					375
Leu His Glu Thr	Gly	Ile	Phe	Lys	Lys	His	Leu	Leu	Leu	Asp	Ala
	380					385					390
Glu Arg His Thr	Gln	Ile	Gln	Trp	Lys	Lys	His	Ser	Tyr	Pro	Phe
	395					400					405
Val Thr Phe Gln	Leu	Tyr	Ser	Leu	Ile	Asp	His	Asp	Tyr	Ile	Pro
	410					415					420
Arg Glu Ile Asp	Arg	Leu	Ser	Gly	Asp	Lys	Asn	Thr	Ala	Ile	Val
	425					430					435
Ile Thr Phe Gly	Gln	His	Phe	Arg	Pro	Phe	Pro	Ile	Asp	Ile	Phe
	440					445					450
Ile Arg Arg Ala	Ile	Gly	Val	Gln	Lys	Ala	Ile	Glu	Arg	Leu	Phe
	455					460					465
Leu Arg Ser Pro	Ala	Thr	Lys	Val	Ile	Ile	Lys	Thr	Glu	Asn	Ile
	470					475					480
Arg Glu Met His	Ile	Glu	Thr	Glu	Arg	Phe	Gly	Asp	Phe	His	Gly
	485					490					495
Tyr Ile His Tyr	Leu	Ile	Met	Lys	Asp	Ile	Phe	Lys	Asp	Leu	Asn
	500					505					510

PC-0028 US

Val Gly Ile Ile Asp Ala Trp Asp Met Thr Ile Ala Tyr Gly Thr
515 520 525
Asp Thr Ile His Pro Pro Asp His Val Ile Gly Asn Gln Ile Asn
530 535 540
Met Phe Leu Asn Tyr Ile Cys
545

<210> 3
<211> 1616
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3229449CB1

<400> 3
atccatgcta aaggtaaaca aactgcaact tatatctgca atttattttg gtatagacaa 60
gaggtatgcc agtagcacac tgggtggcttc agaagaaatt ctcaacacct agctcgccag 120
agagtctatg tatgggattg aacaatctgt aaactaaagg atcctaataca tgaaaataag 180
tatgataaat tataagtcac tattggcact gttgtttata ttagcctcct ggatcatttt 240
tacagttttc cagaactcca caaaggtttg gtctgctcta aacttatcca tctccctcca 300
ttactggaac aactccacaa agtccttatt ccctaaaaca ccactgatat cattaaagcc 360
actaacagag actgaactca gaataaagga aatcatagag aaactagatc agcagatccc 420
accagacct ttcacccacg tgaacaccac caccagegcc acacatagca cagccaccat 480
cctcaaccct cgagatacgt actgcagggg agaccagctg cacatcctgc tggaggtgag 540
ggaccacttg ggacgcagga agcaatatgg cggggatttc ctgagggcca ggatgtcttc 600
cccagcgctg atggcaggtg cttcaggaaa ggtgactgac ttcaacaacg gcacctacct 660
ggtcagcttc actctgttct gggagggcca ggtctctctg tctctgctgc tcatccacc 720
cagtgaaggg gtgtcagctc tctggagtgc aaggaaccaa ggctatgaca gggatgatctt 780
cactggccag tttgtcaatg gcacttcccc agtccactct gaatgtggcc tgatcctaaa 840
cacaaatgct gaattgtgcc agtacctgga caacagagac caagaaggct tctactgtgt 900
gaggctcaa cacatgccct gtgctgcact cactcacatg tattctaaga acaagaaagt 960
ttcttatctt agcaaacaag aaaagagcct ctttgaaagg tcaaatgtgg gtgtagagat 1020
tatggaaaaa ttcaatacaa ttagtgtctc caaatgcaac aactgaagt cagtggatct 1080
gcatgaatct ggaaaattgc aacaccagct tgctgtggat ttggatagga acatcaacat 1140
ccagtggcaa aaatattgtt atcccttgat aggatcaatg acctattcag tcaaagagat 1200
ggagtacctc acccgggcca ttgacagaac tggaggagaa aaaaatactg tcattgttat 1260
ttccttgggc cagcatttca gacctttcc cattgatgtt tttatccgaa gggccctcaa 1320
tgtccacaaa gccattcagc atcttcttct gagaagccca gacactatgg ttatcatcaa 1380
aacagaaaac atcagggaga tgtacaatga tgcagaaaga tttagtact ttcatggtta 1440
cattcaatat ctcatcataa aggacatttt ccaggatctc agtgtgagta tcattgatgc 1500
ctgggatata acaattgcat atggcacaaa taatgtacac ccacctcaac atgtagtcgg 1560
aatcagatt aatatattat taaactatat ttgttaaata acaaaaaaaaa aaaaaa 1616

<210> 4
<211> 240
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2771041H1

<400> 4
atccatgcta aaggtaaaca aactgcaact tatatctgca atttattttg gtatagacaa 60

PC-0028 US

```
gaggtatgcc agtagcacac tgggtggcttc agaagaaatt ctcaacacct agctcgccag 120
agagtctatg tatgggattg aacaatctgt aaactaaagg atcctaataca tgaaaataag 180
tatgataaat tataagtcac tattggcact gttgtttata ttagcctcct ggatcatttt 240
```

<210> 5
<211> 621
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 71851705V1

```
<400> 5
gccacattca gaagtggact tgggaagtgc cattgacaaa ctggccagtg aagatcaccc 60
tgtcatagcc ttgggttcctt gcactccaga gagctgacac ccttcactg ggggtggatga 120
gcagcagaga cagagagacc tggccctccc agaacagagt gaagctgacc aggtaggtgc 180
cgttgttgaa gtcagtcacc tttcctgaag cacctgccat cagcgtcggg gaagacatcc 240
tggccctcag gaaatccccg ccataattgt tcctgcgtcc caagtggtec ctcacctcca 300
gcaggatgtg cagctgggtc cccctgcagt acgtatctcg agggttgagg atgggtggctg 360
tgctatgtgt ggcgtgggtg tgggtgttca cgtgggtgaa aggtctgggt ggggtctgct 420
gatctagttt ctctatgatt tctttatttc tgagttcagt ctctgttagt ggctttaatg 480
atatcagtggt tgttttaggg aataaggact ttgtggagtt gttccagtaa tggagggaga 540
tggataagtt tagagcagac caaacctttg tggagttctg gaaaactgta aaaatgatcc 600
aggaggctaa tataaacaac a                                     621
```

<210> 6
<211> 545
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 70255975V1

```
<400> 6
gccacattca gagtggactt gggaagtgcc attgacaaac tggccagtga agatcaccc 60
gtcatagcct tgggttcctt cactccagag agctgacacc ccttcactgg ggtggatgag 120
cagcagagac agagagacct ggccctccca gaacagagtg aagctgacca ggtaggtgcc 180
gttggtgaag tcagtcacct ttcctgaagc acctgccatc agcgtcgggg aagacatcct 240
ggccctcagg aaatccccgc catattgctt cctgcgtccc aagtggtecc tcacctccag 300
caggatgtgc agctgggtct cctgcagta cgtatctcga gggttgagga tgggtggctgt 360
gctatgtgtg gcgctgggtg tgggtgttcac gtgggtgata ggtctgggtg ggatctgctg 420
atctagtttc tctatgattt cctttattct gagttcagtc tctgttagtg gctttaatga 480
tatcagtggt gtttttaggga ataaggactt tctggacgtc gttcagtaat ggagggagat 540
ggata                                     545
```

<210> 7
<211> 236
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5596934H1

PC-0028 US

<220>
<221> unsure
<222> 228
<223> a, t, c, g, or other

<400> 7
ggaaccaagg ctattgacag ggtgatcttc actggccagt ttgtcaatgg cacttcccaa 60
gtccactctg aatgtggcct gatcctaaac acaaatgctg aattgtgcca gtacctggac 120
aacagagacc aagaaggctt ctactgtgtg aggcctcaac acatgccctg tgctgcactc 180
actcacatgt attctaagaa caagaaagtt tcttatctta gcaaacanga aaagag 236

<210> 8
<211> 414
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3229449F6

<220>
<221> unsure
<222> 47, 105, 248
<223> a, t, c, g, or other

<400> 8
caagtttgga atgacatcca caatccccag tgggcatgtc tggaganaca catggaatcc 60
tgtctcctgt agtttggcta cagtcaaaat gaaggaatgc ctganaggaa aactcatata 120
cctaattggga gattccacga tccgccagtg gatggaatac ttcaaagcca gtatcaacac 180
actgaagtca gtggatctgc atgaatctgg aaaattgcaa caccagcttg ctgtggattt 240
ggataggnac atcaacatcc agtggcaaaa acattgttat cccttgatag gatcaatgac 300
ctattcagtc aaagagatgg agtacctcac ccggggccat tgacagaact ggaggggagaa 360
aaaaatactg tcattgttat ttccctgggg ccagcatttc agaccctttt ccca 414

<210> 9
<211> 394
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7128544H1

<400> 9
ggtgaggtac tccatctctt tgacagaact ggaggagaaa aaaatactgt cattgttatt 60
tccctggggc agcatttcag accctttccc attgatgttt ttatccgaag ggccctcaat 120
gtccacaaaag ccattcagca tcttctctctg agaagcccag acactatggg tatcatcaaa 180
acagaaaaca tcaggagat gtacaatgat gcagaaagat ttagtgactt tcatggttac 240
attcaatata tcatcataaa ggacatttcc caggatctca gtgtgagtat cattgatgcc 300
tgggatataa caattgcata tggcaciaat aatgtacacc cacctcaaca tgtagtcgga 360
aatcagatta atatattatt aaactatatt tggt 394

<210> 10
<211> 2248
<212> DNA
<213> Homo sapiens

PC-0028 US

<220>

<221> misc_feature

<223> Incyte ID No: 7484349CB1

<400> 10

```
gccagttaag aactcacagg tactttttcca gccacccaga taggagagat cattaaaaaca 60
gtgcattctg tgctacctga cacctattgg ggtcctggaa ggaggaagca acaatcctga 120
gtgaaacctc gacaagaagt atccaatagg acattcgtca tgcctcaaaa tacaatgctt 180
caaaaaacgc tgetgatctt gatctctttt tcagtagtaa cctggatgat ttttataatt 240
tctcagaact tcacaaagct ttggtctgct ctaaaacttat ccattctctgt ccattactgg 300
aacaactccg caaagtcctt attccctaaa acatcactga taccattaaa gccactaaca 360
gagactgaac tcagaataaa ggaaatcata gagaaactag atcagcagat cccacccaga 420
cctttcaccc atgtgaacac caccaccagt gccacacaca gcacagccac catcctcaac 480
cctcgagata catactgcag gggagaccag ctggacatcc tactggaggt gagggaccac 540
ttgggacaga ggaagcaata tgggtggggat ttcttgaggg ccaggatgtc ctccccagca 600
ctgacggcag gtgcttcagg aaaggtgatg gacttcaaca atggcaccta cctggtcagc 660
ttcactctgt tctgggaggg ccaggtctcc ctgtctctgc tgctcatcca cccagtgaa 720
ggggcgtcgg ctctctggag ggcaaggaac caaggetatg ataaaattat tttcaaaggc 780
aaatttgta atggcacctc tcatgtcttc actgaatgtg gcctgaccct aaactcaaat 840
gctgaactct gtgaatatct ggatgacaga gaccaagaag ctttctattg tatgaagcct 900
caacacatgc cctgtgaggg tctgacctac atgaccaccc ggaatagaga ggtatcttat 960
cttacagaca aggaaaacag ccttttccac aggtccaaag tgggagttga aatgatgaag 1020
gatcgtaaac acattgatgt cactaattgt aacaagagag aaaaaataga agagacatgc 1080
caagttggaa tgaagcctcc tgtccctggg gggtatactt tacaaggaaa atggataaca 1140
acattttgca accaggttca gtttagacaca attaagataa atggctgttt gaaaggcaaa 1200
ctcattttacc tctggggaga ctctacacta cgtcagtggg tctactactt ccccaaagtt 1260
gtaaaaacac tgaagttttt tgatcttcat gaaactggaa tctttaagaa acatttgctt 1320
ctggatgcag aaagacacac tcagattcaa tggaaaaaac atagctatcc ctctgctact 1380
ttccagctct actctctgat agatcatgat tatatccctc gggaaattga ccggctatca 1440
ggtgacaaaa acacagccat cgtcatcacc tttggccagc acttttagacc atttcccat 1500
gacattttta ttccgagggc catcggtgtt caaaaaggcta ttgaaagact gttcctaaga 1560
agcccagcca ctaaagtgat tattaagaca gaaaacatca gggagatgca catagagaca 1620
gagaggtttg gagacttcca tggttatatt cactatctta tcatgaagga tattttcaaa 1680
gacctcaacg tgggcatcat tgatgcctgg gacatgacca ttgcatatgg cactgacact 1740
atccacccac ctgatcatgt gattggaaat cagattaaca tgttctttaa ctacatttgc 1800
taagggataa atactataca aaatcactag gaaccaatct ctgcacataa tcccatatgt 1860
attgtaaaagt aagttttact catttttagga actaaggaaa ataaatttaa aagaatctgt 1920
ttggggagga aggctatgta aggacaatga caactgataa gggatgcaaa accaagagaa 1980
tcattcatga agaatagact taccatgcct ggttctgatg ctcgttttaa atattaaaaa 2040
agttttttta aagccatggt attaagctga tttgaaaata tctgtacaaa ttcattgatgc 2100
tttctatttc caatatagat atttcctagc tctgtctatt gaaaaggcct aggagcaatg 2160
ataaccatt agcaataatc actccgagca ccctaactgt gatgtctaag aacccttctc 2220
caataaaaaga aaagagggcat ccttgaag 2248
```

<210> 11

<211> 661

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1333949F6

<400> 11

```
gccagttaag aactcacagg tactttttcca gccacccaga taggagagat cattaaaaaca 60
gtgcattctg tgctacctga cacctattgg ggtcctggaa ggaggaagca acaatcctga 120
```

PC-0028 US

```
gtgaaacctc gacaagaagt atccaatagg acattcgtea tgcctcaaa tacaatgctt 180
caaaaaacgc tgctgatctt gatctctttt tcagtagtaa cctggatgat ttttataatt 240
tctcagaact tcacaaagct ttggtctgct ctaaacttat ccatctctgt ccattactgg 300
aacaactccg caaagtcctt attccctaaa acatcactga taccattaaa gccactaaca 360
gagactgaac tcagaataaa ggaaatcata gagaaactag atcagcagat cccaccaga 420
cctttcaccc atgtgaacac caccaccagt gccacacaca gcacagccac catcctcaac 480
cctcgagata catactgcag gggagaccag ctggacatcc tactggaggt gagggaccac 540
ttgggacaga ggaagcaata tgggtggggat ttcctgaggg ccaggatgtc ctcccagca 600
ctgacggcag gtgcttcagg aaagggtgat gacttcaaca atggcaccta cctggtcagc 660
t
```

<210> 12
<211> 518
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7604658J1

```
<400> 12
ggtggtcatg taggtcagag cctcacaggg catgtgttga ggcttcatac aatagaaggc 60
ttcttgggtct ctgtcatcca gatattcaca gagttcagca tttgagttta gggtcaggcc 120
acattcagtg aagacatgag aggtgccatt aacaaatttg cctttgaaaa taattttatc 180
atagccttgg ttctttgccc tccagagagc cgacgcccct tcaactggggg ggatgagcag 240
cagagacagg gagacctggc cctcccagaa cagagtgaag ctgaccagggt aggtgccatt 300
gttgaagtcc atcacctttc ctgaagcacc tgccgtcagt gctggggagg acatcctggc 360
cctcaggaaa tccccacat attgcttcct ctgtcccaag tggctcctca cctccagtag 420
gatgtccagc tgggtctccc tgcagtatgt atctcgaggg ttgaggatgg tggctgtgct 480
gtgtgtggca ctgggtggtg tgttcacatg ggtgaaag 518
```

<210> 13
<211> 462
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 70106729V1

```
<400> 13
atagtgaata taaccatgga agtctccaaa cctctctgtc tctatgtgca tctccctgat 60
gttttctgtc ttaataatca ctttagtggc tgggcttctt aggaacagtc tttcaatagc 120
cttttgaaca ccgatggccc tgcgaataaa aatgtcaatg ggaaatggtc taaagtgtctg 180
gccaaagggtg atgacgatgg ctgtgttttt gtcacctgat agccggtcaa tttcccagagg 240
gatataatca tgatctatca gagagtagag ctggaaagtg acgaagggat agctatgttt 300
tttccattga atctgagtgt gtctttctgc atccagaagc aaatgtttct taaagattcc 360
agtttcatga agatcaaaaa acctcagtgt ttttacaact ttggggaagt agtagatcca 420
ctgacgtagt gtagagtctc ccaggaggta aatgagtttg ct 462
```

<210> 14
<211> 531
<212> DNA
<213> Homo sapiens

<220>

PC-0028 US

<221> misc_feature

<223> Incyte ID No: 70107804V1

<400> 14

```
ttttatttgc ttttaaaaaa cttttttaat atttttaaac agcatcagaa ccaggcatgg 60
tatagtccatt cttcatgaat gattctcttg gttttgcac cttatcagt tgtcattgtc 120
cttacatagc cttcctcccc aaacagattc ttttaaattt attttcctta gttcctaaaa 180
tgagtaaaac ttactttaca atacatgtgg gattatgtgc agagattggg tcctagtgat 240
tttgtatagt atttatccct tagcaaatgt agtttaagaa catgttaatc tgatttccaa 300
tcacatgac aggtgggtgg atagtgtcag tgccatatgc aatggtcatg tcccaggcat 360
caatgatgcc cacgttgagg tctttgaaaa tatecttcac gataagatag tgaatataac 420
catggaagtc tccaaacctc tctgtctcta tgtgcacatc cctgatgttt tctgtcttaa 480
taatcacttt agtggctggg ctttttagga acagtctttc aatagccttt t 531
```

<210> 15

<211> 276

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 5865314H1

<220>

<221> unsure

<222> 2, 15, 50

<223> a, t, c, g, or other

<400> 15

```
gnaaaaccaa gagantcatt catgaagaat gactatacca tgccctggtn tgatgctcgt 60
ttaaaatatt aaaaaagttt tttaaaagcc atgttatttaa gctgatttga aaatatctgt 120
acaaattcat gatgctttct atttccaata tagatatttc ctagctctgt ctattgaaaa 180
ggcctaggag caatgataac ccattagcaa taatcactcc gagcacccta actgtgatgt 240
ctaagaaccc ttctcaata aaagaaaaga ggcatc 276
```

<210> 16

<211> 206

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701244557H1

<400> 16

```
ccagccctga cggcaggcgc ttctggaaaa gtgacagact tcaacaatgg cgccctaccta 60
gtcagcttca ctctgctctg ggagggccag gtctccctgt ctatcctgct catgcacccc 120
agtgaagggg tgtcagctct ctggagagca aggaaccagg gttacgacag aatcatcttc 180
tcaggccatt ttgtcagtgg cgcttc 206
```

<210> 17

<211> 291

<212> DNA

<213> Rattus norvegicus

<220>

PC-0028 US

<221> misc_feature

<223> Incyte ID No: 700306567H1

<400> 17

```
cctggaagat attctttaag gcaagatact ggggtgtaacc gtggaagtca ctaaacctct 60
ccatgtcggt attcaactcc ctgggtgttt ctgttttgag gaccaccagg gtgtccgggc 120
ttctctggag aagacgctga agagctctgt gaacactgag ggcccttcgg ataaaaacat 180
caatgggaaa aggtctgaaa tgctggccca gagaaaagac aatgactgtg tttttctctc 240
ctccgattct gtcaattatc cgtgcagtgt tctctatctc tttgacagag t 291
```

<210> 18

<211> 244

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 700141983H1

<400> 18

```
agcttccctc taatcgggtc attggtgtac tctgtcaaag agatagagaa cactgcacgg 60
ataattgaca gaatcggagg agagaaaaac acagtcattg tcttttctct gggccagcat 120
ttcagacctt tcccattga tgtttttata cgaaggggccc tcagtgttca cagagctctt 180
cagcgtcttc tccagagaag cccggacacc ctggtggtcc tcaaaacaga aaacaccagg 240
gagt 244
```

<210> 19

<211> 270

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701725590H1

<400> 19

```
catggcttcc ctctaatecg gtcattgggtg tactctgtca aagagataga gaacactgca 60
cggataattg acagaatecg aggagagaaa aacacagtca ttgtcttttc tctgggccag 120
catttcagac cttttcccat tgatgttttt atccgaaggg ccctcagtgt tcacagagct 180
cttcagcgtc ttctccttag aagcccggac accctgggtg tcctcaaaac agaaaattat 240
agggagttag ataacgacat ggagagggtt 270
```

<210> 20

<211> 288

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 700363665H1

<400> 20

```
aacacagtca ttgtcttttc tctgggccag catttcagac cttttcccat tgatgttttt 60
atccgaacgg ccctcagtgt tcacagagct cttcagcgtc ttctcctgag aagcccggac 120
accctgggtg tcctcaaaac agaaaacacc atggagttag ataacgacat ggagagggtt 180
agtgattcca cggttacacc cagtatcttg ccttaaagaa tatcttccag gatctccgtg 240
```

PC-0028 US

tgggtgtcat tgatgcctgg gatatgacag ttgcatatgg cacaaacg

288

<210> 21

<211> 275

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701473585H1

<400> 21

gcagcaccaa	cttgccgtgg	acttggatga	gaaaatcaac	atccagtggc	agaaacatgg	60
cttccctcta	atcgggtcat	tggtgtactc	tgtcaaagag	atagagaaca	ctgcacggat	120
aattgacaga	atcggaggag	agaaaaacac	agtcattgtc	ttttctctgg	gccagcattt	180
cagacccttt	cccattgatg	tttttatccg	ataggccctc	agtggtcaca	gagctcttca	240
gcgtcttctc	cagagaagcc	cggacaccct	ggtgg			275

<210> 22

<211> 257

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 700600759H1

<400> 22

gccaggtctc	cctgtctatc	ctgctcatgc	accccagtga	aggggtgtca	gctctctgga	60
gagcaaggaa	ccaaggctat	ggtagaattg	ccttcaaagg	gacttttgtt	aatggcacat	120
ccaaggtcac	agctgaatgt	ggcctgatcc	tgaactcaag	cagtgaagtc	tgcaaatacc	180
tgtaccgtgg	tggcgaggaa	gtcttctact	gcgtgaagcc	tcaacacatg	ccctgtgagg	240
ccctgacctc	cgtgtgt					257

<210> 23

<211> 276

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701460109H1

<400> 23

tatgggctgt	gtttaagctg	cctgcatcct	tcaatcaatg	ggacttgatc	atgaaatcct	60
catgccctaa	agtgccctct	aatccatcag	tttcaccaac	agagacagaa	ctgagaatca	120
aggagatcct	agagaaacta	aacaaacaga	tccctcccag	acccttcgcc	cacctcaaca	180
acaccacaag	tgtacacac	agcatagcca	ccatcctcaa	ccctcaagat	acatactgtg	240
taggggacca	gctggacatc	ctggtagagg	ctagag			276

<210> 24

<211> 250

<212> DNA

<213> Rattus norvegicus

<220>

PC-0028 US

<221> misc_feature

<223> Incyte ID No: 701420417H1

<400> 24

```
aacaaggaca tttcttatct tagccagcag gaaaggagcc tctttgaaag gtcaaataata 60
gctgtggaga ttatgggaaa atccaacgtg attagtgtct ccaaagccgc 120
ccggtgaaga agaaatgcaa gtttgggatg gcactctgcaa tccctactgg gcactgtctg 180
aaaaacacgt ggaatccggc ctctgcagt ctggtctcaa tcaaatgaa agactgtctg 240
agaggaaaac 250
```

<210> 25

<211> 248

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701634496H1

<400> 25

```
cggacaccct ggtggtcctc aaaacagaaa acaccaggga gttgaataac gacatggaga 60
ggttttagtga cttccacggc tacacccagt atcttgccct aaagaatata ttccaggatc 120
tccgtgtggg tgtcattgat gcctgggata tgacagttgc atatggcaca aacgatgtcc 180
atccaccaga ggaggtagtt agaagtgaat ttaatatatt cttaaactat atttgctagc 240
aaacacat 248
```

<210> 26

<211> 329

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701601584H1

<400> 26

```
ttaaagaata tcttccagga tctccgtgtg ggtgtcattg atgcctggga tatgacagtt 60
gcatatggca caaacgatgt ccatccacca gaggaggtag ttagaagtga aattaatata 120
ttcttaaact atatttgcta gcaaacacat aactttgaaa gtcgctcggt gaacttaaaa 180
gagacagtga gtcctacagc cgtgccaaagt gccgagatat cccagttaat ccaaggacat 240
aatctgtatt atgggtccatg tgggtccatcc agttcagcct aataaggcat tcctacgcca 300
gcctgtgtgt caaaattgaa tatgaaaag 329
```

<210> 27

<211> 144

<212> DNA

<213> Rattus norvegicus

<220>

<221> misc_feature

<223> Incyte ID No: 701940254H1

<400> 27

```
agcctctttg aaagggtcaaa tatagctgtg gagattatgg gaaaatccaa cgtgattagt 60
gtctccaaat gcaacaggtt ctttgaaaaa gatggaaggg acttaataaa cacagatgaa 120
ctggtgtttt agaagacccc atct 144
```

PC-0028 US

<210> 28
<211> 262
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701463630H1

<400> 28
gggaaaaggt ctgaaatgct ggcccagaga aaagacaatg actgtgtttt tctctcctcc 60
gattctgtca attatccgtg cagtgttctc tatctctttg acagagtaca ccaatgaccc 120
gattagaggg aagccatggt tctgccactg gatgttgatt ttctcatcca agtccacggc 180
aagttgggtg tgcagccttc cagtctcgtg gaggtccacc ggccctcagcg tgttgatttt 240
gcttttgaag tactccatcc ac 262

<210> 29
<211> 277
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 701623610H1

<400> 29
ctcacacgga gatcctggaa gatattcttt aaggcaagat actgggtgta tccgtggaag 60
tactgatgc ctgggatatg acagttgcat atggcacaac cgatgtccat ccaccagagg 120
aggtagttag aagtgaattt aatatattct taaactatat ttgctagcaa acacataact 180
ttgaaagtcg ctcggttgaac ttaaaagaga cagtgagtc tacagccgtg ccaagtgccg 240
agatatccca gttaatccaa ggacataatc tgtatta 277

<210> 30
<211> 1005
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: GNN.g9965027_000007_006

<400> 30
atgtcttccc cagcgtgat ggcaggtgct tcaggaaagg tgactgactt caacaacggc 60
acctacctgg tcagcttcac tctgttctgg gagggccagg tctctctgtc tctgtgtctc 120
atccacccca gtgaaggggt gtcagctctc tggagtgcaa ggaaccaagg ctatgacagg 180
gtgatcttca ctggccagtt tgtcaatggc acttcccaag tccactctga atgtggcctg 240
atcctaaaca caaatgctga attgtgccag tacctggaca acagagacca agaaggcttc 300
tactgtgtga ggccctcaaca catgccctgt gctgcactca ctcacatgta ttctaagaac 360
aagaaagttt cttatcttag caaacaagaa aagagcctct ttgaaaggtc aaatgtgggt 420
gtagagatta tggaaaaatt caatacaatt agtgtctcca aatgcaacac actgaagtca 480
gtggatctgc atgaatctgg aaaattgcaa caccagcttg ctgtggattt g gataggaac 540
atcaacatcc agtggcaaaa atattgttat cccttgatag gatcaatgac ctattcagtc 600
aaagagatgg agtacctcac ccggggccatt gacagaactg gaggagaaaa aaatactgtc 660
attgttattt cccctggcca gcatttcaga ccccttccca ttgatgtttt tatccgaagg 720
gccctcaatg tccacaaagc cattcagcat cttcttctga gaagcccaga cactatgggt 780
atcatcaaaa cagaaaacat caggggagatg tacaatgatg cagaaagatt tagtgacttt 840

PC-0028 US

```
catggttaca ttcaatatct catcataaag gacatTTTTcc aggatctcag tgtgagtatc 900
attgatgcct gggatataac aattgcatac ggcacaaata atgtacaccc acctcaacat 960
gtagtcggaa atcagattaa tatattatta aac*atattt gttaa 1005
```

<210> 31
<211> 1545
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: GNN.g9795680_006.edit

<400> 31
ctttggtctg ctctaaactt atccatctct gtccattact ggaacaactc cgcaaagtcc 60
ttattcccta aaacatcact gataccatta aagccactaa cagagactga actcagaata 120
aaggaaatca tagagaaact agatcagcag atcccaccca gacctttcac ccatgtgaac 180
accaccacca gtgccacaca cagcacagcc accatcctca accctcgaga tacatactgc 240
aggggagacc agctggacat cctactggag gtgagggacc acttgggaca gaggaagcaa 300
tatggtgggg atttcctgag ggccaggatg tctcctccag cactgacggc aggtgcttca 360
ggaaaggtga tggacttcaa caatggcacc tacctggtea gcttcactct gttctgggag 420
ggccaggctc cctgtctct gctgctcatc caccctcagt aaggggcgtc ggctctctgg 480
agggcaagga accaaggcta tgataaaatt attttcaaag gcaaatttgt taatggcacc 540
tctcatgtct tcaactgaatg tggcctgacc cttaaactcaa atgctgaact ctgtgaatat 600
ctggatgaca gagaccaaga agccttctat tgtatgaagc ctcaacacat gccctgtgag 660
gctctgacct acatgaccac ccggaataga gaggtatctt atcttacaga caaggaaaac 720
agccttttcc acagggtccaa agtgggagtt gaaatgatga aggatcgtaa acacattgat 780
gtcactaatt gtaacaagag agaaaaaata gaagagacat gccaaagtgg aatgaagcct 840
cctgtccctg gtggttatac tttaacaagg aaatggataa caacattttg caaccagggt 900
cagttagaca caattaagat aaatggctgt ttgaaaggca aactcattta cctcctggga 960
gactctacac tacgtcagtg gatctactac ttccccaaag ttgtaaaaac actgaagttt 1020
tttgatcttc atgaaactgg aatctttaag aaacatttgc ttctggatgc agaaagacac 1080
actcagattc aatggaaaaa acatagctat cccttcgtca ctttccagct ctactctctg 1140
atagatcatg attatatccc tcgggaaatt gaccggctat caggtgacaa aaacacagcc 1200
atcgtcatca cctttggcca gcactttaga ccatttccca ttgacatttt tattcgcagg 1260
gccatcggtg ttcaaaaaggc tattgaaaga ctgttccctaa gaagcccagc cactaaagtg 1320
attattaaga cagaaaacat caggagatg cacatagaga cagagaggtt tggagacttc 1380
catggttata ttactatct tatcatgaag gatattttca aagacctcaa cgtgggcac 1440
attgatgcct gggacatgac cattgcatat ggcactgaca ctatccaccc acctgatcat 1500
gtgattggaa atcagattaa catgttctta aactacattt gctaa 1545

<210> 32
<211> 540
<212> PRT
<213> Oryctolagus cuniculus

<220>
<221> misc_feature
<223> Incyte ID No: g1762

<400> 32
Met Leu His Lys Tyr Leu Lys Leu Ile Cys Leu Leu Ala Ala Ile
1 5 10 15
Cys Val Leu Cys Ile Ile Ser Gln Asn Ser Thr Lys Ile Trp Gly
20 25 30
Ala Leu Lys Leu Pro Asn Ser His Tyr Tyr Ser Asn Thr Ser Met

PC-0028 US

				35					40				45	
Ile	Ser	Ser	Ile	Pro	Lys	Met	Ser	Val	Ser	Pro	Val	Lys	Ser	Leu
				50					55					60
Thr	Glu	Thr	Glu	Leu	Arg	Val	Lys	Glu	Ile	Leu	Glu	Lys	Leu	Asp
				65					70					75
Arg	Leu	Ile	Pro	Pro	Arg	Pro	Phe	Thr	His	Val	Asn	Thr	Thr	Thr
				80					85					90
Ser	Ala	Thr	His	Ser	Thr	Ala	Thr	Ile	Leu	Asn	Pro	Gln	Asp	Lys
				95					100					105
Tyr	Cys	Val	Gly	Asp	Gln	Leu	Asp	Ile	Leu	Leu	Glu	Val	Arg	Asp
				110					115					120
Tyr	Leu	Gly	His	Gln	Lys	Glu	Tyr	Gly	Gly	Asp	Phe	Leu	Arg	Ala
				125					130					135
Arg	Met	Phe	Ser	Pro	Ala	Leu	Lys	Ala	Gly	Ala	Ser	Gly	Lys	Val
				140					145					150
Thr	Asp	Phe	Asn	Asn	Gly	Thr	Tyr	Leu	Val	Ser	Phe	Thr	Leu	Phe
				155					160					165
Trp	Glu	Gly	Gln	Val	Ser	Leu	Ser	Val	Leu	Leu	Ile	His	Pro	Ser
				170					175					180
Glu	Gly	Ala	Ser	Ala	Leu	Trp	Arg	Ala	Arg	Asn	Gln	Gly	Tyr	Asp
				185					190					195
Arg	Ile	Ile	Phe	Lys	Gly	Gln	Phe	Val	Asn	Gly	Thr	Ser	His	Val
				200					205					210
Phe	Thr	Glu	Cys	Ser	Leu	Thr	Leu	Asn	Ser	Asn	Thr	Glu	Glu	Cys
				215					220					225
Lys	Tyr	Leu	Asn	Gly	Arg	Asp	Gln	Asp	Val	Phe	Tyr	Cys	Met	Lys
				230					235					240
Pro	Gln	His	Met	Pro	Cys	Glu	Ala	Leu	Thr	His	Val	Thr	Ser	Arg
				245					250					255
Asn	Arg	Asp	Ile	Ser	Tyr	Leu	Thr	Ser	Lys	Glu	Lys	Asn	Leu	Phe
				260					265					270
His	Arg	Ser	Lys	Val	Gly	Val	Glu	Ile	Met	Lys	Asn	Gln	His	Ile
				275					280					285
Asp	Val	Ser	Gln	Cys	Asn	Lys	Ser	Lys	Glu	Val	Lys	Glu	Lys	Cys
				290					295					300
Gln	Ile	Gly	Met	Lys	Ile	Pro	Val	Pro	Gly	Gly	Tyr	Thr	Leu	Gln
				305					310					315
Gly	Arg	Trp	Leu	Thr	Thr	Phe	Cys	Asn	Gln	Ile	Gln	Leu	Asp	Thr
				320					325					330
Ala	Lys	Ile	Ser	Gly	Cys	Leu	Lys	Gly	Lys	Leu	Ile	Tyr	Leu	Met
				335					340					345
Gly	Asp	Ser	Thr	Leu	Arg	Gln	Trp	Ile	Tyr	Tyr	Leu	Pro	Lys	Val
				350					355					360
Met	Lys	Thr	Leu	Lys	Phe	Phe	Asp	Leu	His	Glu	Thr	Gly	Asn	Phe
				365					370					375
Lys	Lys	His	Leu	Leu	Leu	Asp	Ala	Glu	Lys	His	Thr	Gln	Ile	Gln
				380					385					390
Trp	Lys	Lys	His	Ser	His	Pro	Phe	Val	Thr	Tyr	Gln	Leu	Phe	Ser
				395					400					405
Val	Ile	Asp	His	Gly	Tyr	Ile	Pro	Gln	Glu	Ile	Asp	Arg	Leu	Ile
				410					415					420
Gly	Asp	Lys	Asp	Thr	Val	Ile	Val	Ile	Thr	Phe	Gly	Gln	His	Phe
				425					430					435
Arg	Pro	Phe	Pro	Ile	Asp	Ile	Phe	Ile	Arg	Arg	Ala	Ile	Ser	Val
				440					445					450
Arg	Gln	Ala	Ile	Glu	Arg	Leu	Phe	Leu	Arg	Ser	Pro	Ala	Thr	Lys

PC-0028 US

	455		460		465
Val Ile Val Lys Thr Glu Asn Ile Arg		Glu Met His Ile Glu Ala			
	470		475		480
Glu Arg Phe Gly Asp Phe His Gly Tyr		Ile Gln Tyr Leu Thr Leu			
	485		490		495
Lys Asp Ile Phe Lys Asp Leu Asn Val		Gly Val Val Asp Ala Trp			
	500		505		510
Asp Met Thr Ile Ala Tyr Gly Thr Asn		Asn Val His Pro Pro Asp			
	515		520		525
Gln Val Ile Gly Asn Gln Ile Asn Met		Phe Leu Asn Tyr Ile Cys			
	530		535		540